

# Explicitness lost

Homophony between non-singular person categories

Workshop

‘The truths about pronouns and how true they are’

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## 1. Introduction

- The six-person paradigm (with an occasional inclusive/exclusive opposition) is common, yet it is by far not the only kind of person paradigm.
- In this paper, I will present examples of person paradigms with homophony in the non-singular. Other sources of paradigmatic variation will be disregarded here: homophony in the singular and homophony between the singular and the non-singular.
- Only cases with complete homophony are included: the homophonous forms are completely the same within the language. Near homophony or likeness is not enough. The term ‘homophony’ is intended as a theory-neutral indication that various categories are marked identical within a person paradigm.
- Paradigms of person marking are included individually: inflectional ‘person agreement’ and independent personal pronouns are interpreted *a priori* as equivalent possibilities to mark categories of person.
- Non-singular person categories are analysed as different combinations of singular participants (1+2, 1+2+3, 1+3, 2+3, 3+3).
- The following examples are a collection of cases. They are not the result of a strict sampling procedure but of an unbounded search for ‘unusual’ cases. I welcome additions.
- The cases are ordered roughly geographically within each section: first languages from Africa, then Europe, Eurasia, Southeast Asia, New Guinea, Australia, and finally America from North to South.

## 2. Explicitness Hierarchy

The Explicitness Hierarchy can be thought of as showing more and more homophony from left to right, starting from the marking of ‘we’, but invading the rest of the paradigms sequentially. If there is an inclusive/exclusive opposition in the paradigm, then there is only occasionally homophony in the non-singular. Is this really true?

	common					semi-common			rare	
<i>Minimal vs. Augmented Inclusive</i>	+	-	-	-	-	+	-	-	+	+
<i>Inclusive vs. Exclusive</i>	+	+	-	-	-	-	+	-	+	-
<i>Absence of non-singular Homophony</i>	+	+	+	-	-	+	-	+	-	-
<i>Absence of singular Homophony</i>	+	+	+	+	-	+	+	-	+	+

## 3. Homophony with no inclusive/exclusive opposition

Three non-singular categories:

- we (speaker and other, possibly also addressee)
- you-plural (addressee and other)
- they (multiple other)

Paradigms that distinguish all three categories by different morphemes are common. I know of the following cases of homophony:

**3.1 we = you-plural**  
(first and second person homophony)

- **Dogon** suffixes (Plungian, 1995: 30)
- **Dongola** suffixes (Reinisch, 1879: 65)
- **Svan** suffixes (Tuite, 1997: 28)
- **Nakh-Dagestanian** suffixes:
  - Lak** (Helmbrecht, 1996: 131)
  - Dargi** (van den Berg, 1999:155-156)
- **East New Guinea Highlands** independent pronouns:
  - Awa** (Loving, 1973: 85)
  - Usarufa** (Foley, 1986: 255)
- **Waskia** past suffixes (Ross & Paol, 1978: 67-68)
- **Yareba** independent pronouns (Weimer & Weimer, 1975: 675-690)
- **Yimas** independent pronouns (Foley, 1991: 111-114)
- **Athabaskan** independent pronouns:
  - Slave** (Rice, 1989:253, 431)
  - Navaho** (Young & Morgan, 1987:7-8)
  - Chiricahua Apache** (Hojjer, 1946: 76, 78, 83)
  - Kato** (Goddard, 1912: 33)
  - Hupa** (Goddard, 1905: 29)
- **Ika** prefixes (Frank, 1990: 50-51)
- **Nez Perce** prefixes (Rude, 1985: 30-39)

<b>3.2</b> you-plural = they (non-first person homophony)
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- **Slavonic** suffixes:
  - Slovene** (de Bray, 1951: 415-416; Priestly, 1993: 418)
  - Upper Sorbian** (de Bray, 1951: 743; Schuster-Sewc, 1996: 161-162)
- **Koryak** prefixes (Comrie, 1980: 64-67)
- **East New Guinea Highlands** independent pronouns/suffixes:
  - Fore** (Foley, 1986: 74, citing Scott 1978)
  - Gadsup** (Frantz & McKaughan, 1973: 440)
  - Kalam** (Foley, 1986: 71, citing Pawley 1966)
  - Kewa** (Franklin, 1971: 57-58)
  - Kuman** (Foley, 1986: 70, citing Piau 1985)
  - Wiru** (Foley, 1986: 72, citing Kerr 1966)
- **Baruya** suffixes (Wurm, 1975: 499, citing Lloyd 1973)
- **Yagaria** suffixes (Renck, 1975: 90-96)
- **Amele** independent pronouns (Roberts, 1987: 208)
- **Siroi** suffixes (Wells, 1979: 30-31)
- **Magi** suffixes (Thomson, 1975: 631-632)
- **Kombai** suffixes (de Vries, 1989: 145)
- **Nez Perce** independent pronouns (Rude, 1985: 123)
- **Chitimacha** suffixes (Swadesh, 1946: 317-318)
- **Warekena** independent pronouns (Aikhenvald, 1998: 293, 322)
- **Lengua Maskoy** suffixes (Susnik, 1977: 98)

<b>3.3</b> we = they
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- **Bagirmi** independent pronouns (Gaden, 1909:10)
- **Midob** suffixes (Thelwall, 1983: 107)
- **Germanic** suffixes:
  - German** (own data)
  - Middle Dutch** (Schönfeld, 1959: 144-145)
- **Omië** suffixes (Austing & Upia, 1975: 544)
- **Binanderean** suffixes:
  - Korafe** (Farr & Farr, 1975: 747-749)
  - Orokaiva** (Healey *et al.*, 1969: 62)
- **Aleut** suffixes (Geoghegan, 1944: 51)

<b>3.4</b> we = you-plural = they
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- **Krongo** prefixes (Reh, 1985:185)
- **Lango** prefixes (Bavin, 1981: 90-91)
- **Germanic** suffixes:
  - Dutch** (own data)
  - Old English** (Robertson & Cassidy, 1954: 141)
- **Waskia** present suffixes (Ross & Paol, 1978: 67-68)

- **Koiari** suffixes (Dutton, 1996: 23)
- **Una** suffixes (Louwse, 1988:31-32)

#### 4. Homophony with inclusive/exclusive opposition

four non-singular categories:

- inclusive we (speaker, addressee and possible others as well)
- exclusive we (speaker and other)
- you-plural (addressee and other)
- they (multiple others)

Paradigms that distinguish all four categories by different morphemes are common. I know of the following cases of homophony:

<p><b>4.1</b> inclusive we = exclusive we (first person homophony)</p>
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- **Many**: all cases without an inclusive/exclusive opposition

<p><b>4.2</b> inclusive we = you-plural (second person homophony)</p>
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- **Nama** ‘pronominal root’ (Haacke, 1977; Hagman, 1977: 43-44)
- **Puragi** independent pronouns (Voorhoeve, 1975: 439)
- **Luvakuleve** prefixes (Terrill, 1999: 222-223)
- **Tiwi** object prefixes (Osborne, 1974: 39)
- **Algonquian** prefixes (Bloomfield, 1946: 97-99):
  - Ojibwa** (Bloomfield, 1956: 44; Schwartz & Dunnigan, 1986: 305)
  - Menomini** (Bloomfield, 1962: 36-40)
  - Passamaquoddy-Maliseet** (Leavitt, 1996: 9-10)
- **Sanuma** independent pronouns (Borgman, 1990: 149)

<p><b>4.3</b> you-plural = they (non-first person homophony)</p>
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- **Kunama** suffixes (Reinisch, 1881: 53; Bender, 1996: 19)
- **Kasuweri** independent pronouns (Voorhoeve, 1975: 439)
- **Suena** suffixes (Wilson, 1969: 97)
- **Korafe** independent pronouns (Farr & Farr, 1975: 734-735)

<p><b>4.4</b> exclusive we = they (non-second person homophony)</p>
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- **Binandere** suffixes (Capell, 1969: 16-31)
- **Shuswap** suffixes (Kuipers, 1974: 45, 59)
- **Carib** prefixes:
  - Waiwai** (Hawkins, 1998: 178-179)
  - Hixkaryana** (Derbyshire, 1979: 146-149)

<b>4.5</b> inclusive we = they
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- **Tanna** prefixes (Lynch, 1967: 46-48):
  - Lenakel** (Lynch, 1978: 45)
  - Kwamera** (Lindstrom & Lynch, 1994: 12)
- **Huave** prefixes (Stairs & Hollenbach, 1969: 48-53)

<b>4.6</b> exclusive we = you-plural
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- **Lamalera** prefixes (Keraf, 1978: 74-76)
- **Burarra** prefixes (Glasgow, 1984)
- **Tiwi** intransitive subject prefixes non-past (Osborne, 1974: 38)

## 5. Homophony with minimal/augmented opposition

five non-singular categories:

- minimal inclusive we (only speaker and addressee)
- augmented inclusive we (speaker, addressee and others)
- exclusive we (speaker and others)
- you-plural (addressee and other)
- they (multiple others)

Paradigms that distinguish all five categories by different morphemes are common. I know of the following cases of homophony:

<b>5.1</b> augmented inclusive we = minimal inclusive we
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- **Many**: all cases with an inclusive/exclusive distinction

<b>5.2</b> augmented inclusive we = exclusive we
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- **Kunimaipa** imperfect suffixes (Pence, 1968: 110; Geary, 1977: 26)
- **Bardi** prefixes (Metcalf, 1975: 123)
- **Burarra** independent pronouns (Glasgow, 1964: 110-111; 1984: 15)
- **Lakhota** independent pronouns (Van Valin, 1977: 74-75)
- (?) **Miwok** independent pronouns (Callaghan, 1974: 386):
  - Northern Sierra Miwok** (Callaghan, 1987: 397-398)
  - Plains Miwok** (Callaghan, 1984: 296-297)

<b>5.3</b> minimal inclusive we = exclusive we
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- **Yaouré** independent pronouns (Hopkins, 1986: 192)
- **Kunimaipa** independent pronouns (Pence, 1968; Geary, 1977: 17-18)
- **Gooniyandi** independent pronouns (McGregor, 1989: 438-439; 1990: 167-169)

<b>5.4</b> augmented inclusive we = exclusive we = you-plural
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- **Kunimaipa** perfect suffixes (Pence, 1968: 110)

## 6. Conclusions

- ‘strange’ paradigmatic structures occur relatively frequent among the world’s languages.
- The semantically coherent kinds of homophony are the most frequent. These kinds of homophony are occasionally found with independent pronouns, the others are always inflectional (one exception). The second person centered homophony is not very common.
- The lesser amount of homophony with an inclusive/exclusive distinction could be an effect of overall frequencies. Preliminary counts of a controlled sample indicate that paradigms without an inclusive/exclusive distinction are roughly twice as frequent as paradigms with an inclusive/exclusive distinction. The amount of cases with homophony as discussed in this paper is roughly equivalent with this ratio.
- Homophony of non-singular categories in paradigms with an inclusive/exclusive opposition is more common as I expected.
- Paradigms with a minimal/augmented distinction do not show homophony with *you-plural* or *they*.
- There is a geographical skewing in the cases as discussed above. Most cases with homophony turn out to be found around New Guinea, Australia and America.

## 7. References

- AIKHENVALD, ALEXANDRA A.Y. (1998). "Warekena". In: Desmond C. Derbyshire & Geoffrey K. Pullum (eds.) *Handbook of Amazonian Languages*. Vol. 4, pp. 225-440. Berlin: Mouton de Gruyter.
- AUSTING, JOHN & RANDOLPH UPIA (1975). "Highlights of Ömie Morphology". In: Tom E. Dutton (ed.) *Studies in Language of Central and South-East Papua*, pp. 513-598. (Pacific Linguistics, C 29). Canberra: Australian National University.
- BAVIN, EDITH L. (1981). "Lango: some Morphological Changes in Verb paradigm". In: Thilo C. Schadeberg & M. Lionel Bender (eds.) *Nilo-Saharan, proceedings of the First Nilo-Saharan Linguistic Colloquium*, pp. 89-100. Dordrecht: Foris.
- BENDER, LIONEL M. (1996). *Kunama*. (Languages of the World/Materials, 59). München: Lincom.
- VAN DEN BERG, HELMA (1999). "Gender and person agreement in Akusha Dargi". *Folia Linguistica* XXXIII (2): 153-168.
- BLOOMFIELD, LEONARD (1946). "Algonquian". In: Cornelius Osgood (ed.) *Linguistic Structures of Native America*, pp. 85-129. (Publications in Anthropology, 6). New York: Viking Fund.
- (1956). *Eastern Ojibwa: Grammatical sketch, texts and word list*. Ann Arbor: University of Michigan Press.
- (1962). *Menomini Language*. New Haven: Yale University Press.
- BORGMAN, DONALD M. (1990). "Sanuma". In: Desmond C. Debyshire & Geoffrey K. Pullum (eds.) *Handbook of Amazonian Languages*. Vol. 2, pp. 15-248. Berlin: Mouton de Gruyter.
- DE BRAY, R.G.A. (1951). *Guide to the Slavonic Languages*. London: J.M. Dent & Sons.
- CALLAGHAN, CATHERINE A. (1974). "Increase in Morphological Complexity". In: Luigi Heilmann (ed.) *Proceedings of the Eleventh International Congress of Linguists*, pp. 383-388. Bologna: Società Editrice il Mulino.
- (1984). *Plains Miwok Dictionary*. (University of California Publications in Linguistics, 105). Berkeley: University of California Press.
- (1987). *Northern Sierra Miwok Dictionary*. (University of California Publications in Linguistics, 110). Berkeley: University of California Press.
- CAPELL, A. (1969). "The Structure of the Binandere Verb". In: *Papers in New Guinea Linguistics*. Vol. 9, pp. 1-32. (Pacific Linguistics, A 18). Canberra: Australian National University.
- COMRIE, BERNARD (1980). "Inverse Verb Forms in Siberia: evidence from Chukchee, Koryak and Kamchadal". *Folia Linguistica Historica* 1 (1): 61-74.
- DERBYSHIRE, DESMOND C. (1979). *Hixkaryana*. Amsterdam: North Holland Publishing Company.
- DUTTON, TOM E. (1996). *Koiari*. (Languages of the World/Materials, 10). München: Lincom.
- FARR, JAMES & CYNTHIA FARR (1975). "Some Features of Korafe Morphology". In: Tom E. Dutton (ed.) *Studies in Language of Central and South-East Papua*, pp. 731-770. (Pacific Linguistics, C 29). Canberra: Australian National University.
- FOLEY, WILLIAM A. (1986). *The Papuan Languages of New Guinea*. (Cambridge Language Surveys). Cambridge: Cambridge University Press.
- (1991). *The Yimas Language of New Guinea*. Stanford: Stanford University Press.

- FRANK, PAUL S. (1990). *Ika Syntax*. (Studies in the languages of Colombia, 1). Arlington: Summer Institute of Linguistics.
- FRANKLIN, K.J. (1971). *A Grammar of Kewa, New Guinea*. (Pacific Linguistics, C 16). Canberra: Australian National University.
- FRANTZ, CHESTER & HOWARD P. MCKAUGHAN (1973). "Gadsup Independent Verb Affixes". In: Howard P. McKaughan (ed.) *The Languages of the Eastern Family of the East New Guinea Highland Stock*, pp. 439-449. Seattle: University of Washington Press.
- GADEN, H. (1909). *Essai de Grammaire de la Langue Baguirmienne*. Paris: Ernest Leroux.
- GEARY, ELAINE (1977). *Kunimaipa Grammar*. (Workpapers in Papua New Guinean Languages, 23). Ukarumpa: Summer Institute of Linguistics.
- GEOGHEGAN, RICHARD HENRY (1944). *The Aleut Language*. Washington: United States Department of the Interior.
- GLASGOW, KATHLEEN (1964). "Four principal contrasts in Burera Personal Pronouns". In: Richard Pittman & Harland B. Kerr (eds.) *Papers on the Languages of the Australian Aborigines*, pp. 109-117. (Occasional Papers in Aboriginal Studies, 3). Canberra: Australian Institute of Aboriginal Studies.
- (1984). "Burarra word classes". In: *Papers in Australian Linguistics*. Vol. 16, pp. 1-54. (Pacific Linguistics, A 68). Canberra: Australian National University.
- GODDARD, PLINY EARLE (1905). *The Morphology of the Hupa language*. (American Archeology and Ethnology). Berkeley: University Press.
- (1912). *Elements of the Kato language*. Berkeley: University of California Press.
- HAACKE, W.H.G. (1977). "The so-called 'personal pronoun' in Nama". In: A. Traill (ed.) *Khoisan Linguistic Studies*. Vol. 3, pp. 43-62. Johannesburg: African Studies Institute.
- HAGMAN, ROY S. (1977). *Nama Hottentot Grammar*. Bloomington: Indiana University Press.
- HAWKINS, ROBERT E. (1998). "Wai Wai". In: Desmond C. Derbyshire & Geoffrey K. Pullum (eds.) *Handbook of Amazonian Languages*. Vol. 4, pp. 25-224. Berlin: Mouton de Gruyter.
- HEALEY, ALAN, AMBROSE ISOROEMBO & MARTIN CHITTLEBOROUGH (1969). "Preliminary Notes on Orokaiva Grammar". In: *Papers in New Guinea Linguistics*. Vol. 9, pp. 33-64. (Pacific Linguistics, A 18). Canberra: Australian National University.
- HELMBRECHT, JOHANNES (1996). "The syntax of personal agreement in East Caucasian languages". *Sprachtypologie und Universalien Forschung* 49 (2): 127-148.
- HOIJER, HARRY (1946). "Chiricahua Apache". In: Cornelius Osgood (ed.) *Linguistic Structures of Native America*. (Publications in Anthropology, 6). New York: Viking Fund.
- HOPKINS, ELIZABETH B. (1986). "Pronouns and Pronoun Fusion in Yaouré". In: Ursula Wiesemann (ed.) *Pronominal Systems*, pp. 191-204. Tübingen: Gunter Narr.
- KERAF, GREGORIUS (1978). *Morfologi Dialek Lamalera*. Ende-Flores: Arnoldus.
- KUIPERS, AERT H. (1974). *The Shuswap Language: Grammar, Texts, Dictionary*. The Hague: Mouton.
- LEAVITT, ROBERT M. (1996). *Passamaquoddy-Maliseet*. (Languages of the World/Materials, 27). München: Lincom.
- LINDSTROM, LAMONT & JOHN D. LYNCH (1994). *Kwamera*. (Languages of the World/Materials, 2). München: Lincom.



- LOUWERSE, JOHN (1988). *The morphosyntax of Una in relation to discourse structure: a descriptive analysis*. (Pacific Linguistics, B 100). Canberra: Australian National University.
- LOVING, RICHARD (1973). "An Outline of Awa grammatical structure". In: Howard P. McKaughan (ed.) *The Languages of the Eastern Family of the East New Guinea Highland Stock*, pp. 65-87. Seattle: University of Washington Press.
- LYNCH, JOHN D. (1967). *A Comparative Study of the Languages and Dialects of the Island of Tanna, Southern New Hebrides*. Ph.D. dissertation, University of Sydney.
- (1978). *A Grammar of Lenakel*. (Pacific Linguistics, B 55). Canberra: Australian National University.
- MCGREGOR, WILLIAM B. (1989). "Greenberg on the first person inclusive dual: Evidence from some Australian languages". *Studies in Language* 13 (2): 437-451.
- (1990). *A Functional Grammar of Gooniyandi*. (Studies in Language Companion Series, 22). Amsterdam: John Benjamins.
- METCALFE, C.D. (1975). *Bardi Verb morphology (Northwestern Australia)*. (Pacific Linguistics, B 30). Canberra: Australian National University.
- OSBORNE, C.R. (1974). *The Tiwi Language*. Canberra: Australian Institute of Aboriginal Studies.
- PENCE, ALAN R. (1968). "An Analysis of Kunimaipa Pronouns". *Kivung* 1 (2): 109-115.
- PLUNGIAN, VLADIMIR (1995). *Dogon*. (Languages of the World/Materials, 64). München: Lincom.
- PRIESTLY, T.M.S. (1993). "Slovene". In: Comrie Bernard & Greville G. Corbett (eds.) *The Slavonic Languages*, pp. 388-451. London: Routledge.
- REH, MECHTHILD (1985). *Die Krongo Sprache (n̄inò mó-di)*. (Kölner Beiträge zur Afrikanistik, 12). Berlin: Dietrich Reimer.
- REINISCH, LEO (1879). *Die Nuba Sprache: Erster Teil: Grammatik und Texte*. Wien: Wilhelm Braumüller.
- (1881). *Die Kunama-Sprache in Nord-Ost Afrika*. Wien: Carl Gerold's Sohn.
- RENCK, G.L. (1975). *A Grammar of Yagaria*. (Pacific Linguistics, B 40). Canberra: Australian National University.
- RICE, KEREN (1989). *A Grammar of Slave*. Berlin: Mouton de Gruyter.
- ROBERTS, JOHN R. (1987). *Amele*. London: Croom Helm.
- ROBERTSON, STUART & FREDERIC G. CASSIDY (1954). *The development of modern English*. Englewood Cliffs: Prentice-Hall.
- ROSS, MALCOLM & JOHN NATU PAOL (1978). *A Waskia sketch and vocabulary*. (Pacific Linguistics, B 56). Canberra: Australian National University.
- RUDE, NOEL EMERSON (1985). *Studies in Nez Perce Grammar and Discourse*. Ph.D. dissertation, University of Oregon.
- SCHÖNFELD, M. (1959). *Historische Grammatica van het Nederlands*. Zutphen: Thieme. (6th edition).
- SCHUSTER-SEWC, H. (1996). *Grammar of the Upper Sorbian language: Phonology and Morphology*. (LINCOM studies in Slavic Linguistics, 3). München: Lincom.
- SCHWARTZ, LINDA J. & TIMOTHY DUNNIGAN (1986). "Pronouns and pronominal categories in southwestern Ojibwe". In: Ursula Wiesemann (ed.) *Pronominal Systems*, pp. 285-322. Tübingen: Gunter Narr.
- STAIRS, EMILY F. & BARBARA ERICKSON HOLLENBACH (1969). "Huave Verb Morphology". *International Journal of American Linguistics* 35: 38-53.

- SUSNIK, BRANISLAVA (1977). *Lengua Maskoy, su hablar, su pensar, su vivencia*. Asunción: Museo Etnografico 'Andres Barbero'.
- SWADESH, MORRIS (1946). "Chitimacha". In: Cornelius Osgood (ed.) *Linguistic Structures of Native America*, pp. 312-336. (Publications in Anthropology, 6). New York: Viking Fund.
- TERRILL, ANGELA (1999). *A grammar of Lavukaleve: a Papuan language of the Solomon Islands*. Ph.D. dissertation, Australian National University.
- THELWALL, ROBIN (1983). "Meidob Nubian: Phonology, Grammatical Notes and Basic Vocabulary". In: Lionel M. Bender (ed.) *Nilo-Saharan Language Studies*, pp. 97-113. Michigan: African Studies Center.
- THOMSON, N.P. (1975). "Magi Phonology & Grammar – Fifty years afterwards". In: Tom E. Dutton (ed.) *Studies in Language of Central and South-East Papua*, pp. 599-666. (Pacific Linguistics, C 29). Canberra: Australian National University.
- TUITE, KEVIN (1997). *Svan*. (Languages of the World/Materials, 139). München: Lincom.
- VAN VALIN, ROBERT DETRICK, JR. (1977). *Aspects of Lakhota Syntax*. Ph.D. dissertation, University of California, Berkeley.
- VOORHOEVE, CLEMENS LAMBERTUS (1975). "Central and Western Trans-New Guinea Phylum Languages". In: S.A. Wurm (ed.) *Papuan Languages and the New Guinea Linguistic Scene*, pp. 345-460. (Pacific Linguistics, C 38). Canberra: Australian National University.
- DE VRIES, LOURENS (1989). *Studies in Wambon and Kombai*. Ph.D. dissertation, Universiteit van Amsterdam.
- WEIMER, HARRY & NATALIA WEIMER (1975). "A Short Sketch of Yareba Grammar". In: Tom E. Dutton (ed.) *Studies in Language of Central and South-East Papua*, pp. 667-730. (Pacific Linguistics, C 29). Canberra: Australian National University.
- WELLS, MARGARET A. (1979). *Siroi Grammar*. (Pacific Linguistics, B 41). Canberra: Australian National University.
- WILSON, DARRYL (1969). "Suena Grammar Highlights". In: *Papers in New Guinea Linguistics*. Vol. 9, pp. 95-110. (Pacific Linguistics, A 18). Canberra: Australian National University.
- WURM, S.A. (1975). "Eastern Central Trans-New Guinea Phylum Languages". In: S.A. Wurm (ed.) *Papuan Languages and the New Guinea Linguistic Scene*, pp. 461-526. (Pacific Linguistics, C 38). Canberra: Australian National University.
- YOUNG, ROBERT & WILLIAM MORGAN (1987). *The Navaho Language*. Albuquerque: University of New Mexico Press.